

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form U3C  
June 2015  
Form must be Typed  
Form must be completed  
on a per well basis

**ANNUAL REPORT OF PRESSURE MONITORING,  
FLUID INJECTION AND ENHANCED RECOVERY**

Complete all blanks - add pages if needed. Copy to be retained for five (5) years after filing date.

OPERATOR: License # \_\_\_\_\_  
Name: \_\_\_\_\_  
Address 1: \_\_\_\_\_  
Address 2: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_  
Contact Person: \_\_\_\_\_  
Phone: ( \_\_\_\_\_ ) \_\_\_\_\_  
Lease Name: \_\_\_\_\_  
Well Number: \_\_\_\_\_

API No.: \_\_\_\_\_  
Permit No.: \_\_\_\_\_  
Reporting Year: \_\_\_\_\_  
(January 1 to December 31)  
\_\_\_\_ - \_\_\_\_ - \_\_\_\_ - \_\_\_\_ Sec. \_\_\_\_ Twp. \_\_\_\_ S. R. \_\_\_\_  E  W  
(a/a/a/a)  
\_\_\_\_\_ feet from  N /  S Line of Section  
\_\_\_\_\_ feet from  E /  W Line of Section  
County: \_\_\_\_\_

**I. Injection Fluid:**

Type (Pick one):  Fresh Water  Treated Brine  Untreated Brine  Water/Brine  
Source:  Produced Water  Other (Attach list)  
Quality: Total Dissolved Solids: \_\_\_\_\_ mg/l Specific Gravity: \_\_\_\_\_ Additives: \_\_\_\_\_  
(Attach water analysis, if available)

**II. Well Data:**

Maximum Authorized Injection Pressure: \_\_\_\_\_ psi Injection Zone: \_\_\_\_\_  
Maximum Authorized Injection Rate: \_\_\_\_\_ barrels per day  
Total Number of Enhanced Recovery Injection Wells Covered by this Permit: \_\_\_\_\_ (Include TA's)

III.	Month:	Total Fluid Injected BBL	Maximum Fluid Pressure	Total Gas Injected MCF	Maximum Gas Pressure	# Days of Injection
	January	_____	_____	_____	_____	_____
	February	_____	_____	_____	_____	_____
	March	_____	_____	_____	_____	_____
	April	_____	_____	_____	_____	_____
	May	_____	_____	_____	_____	_____
	June	_____	_____	_____	_____	_____
	July	_____	_____	_____	_____	_____
	August	_____	_____	_____	_____	_____
	September	_____	_____	_____	_____	_____
	October	_____	_____	_____	_____	_____
	November	_____	_____	_____	_____	_____
	December	_____	_____	_____	_____	_____
	<b>TOTAL</b>	_____	_____	_____	_____	_____

# Chemical Services Inc.

32 NE 40<sup>th</sup> Ave.  
P.O. Box 1113  
Great Bend, Kansas 67530

Office 620-792-6886

Fax 620-792-6882

## WATER ANALYSIS REPORT

Sample No.: 6214

Submitted : 04/19/17

Company : Berenergy  
Location :  
Field :  
Lease/Unit: Maddie Gates #5

Supplier : Chemical Services  
Sampler : Andy Kirkpatrick  
Sample Pt : Bleeder  
Sampled :

BWPD :		BOPD :		MMCF/day:	
Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium	28774.5	1251.2	Chloride	51000.0	1437.6
Calcium	3040.0	151.7	Bicarbonate	663.0	10.9
Magnesium	583.0	47.9	Sulfate	125.0	2.6
Iron	2.0	0.1	Carbonate		
Barium	16.0	0.2	Hydroxide		
Strontium			Sulfide	140.0	
Manganese			Carbon dioxide	484.0	
			Oxygen		
pH	9.00				
Specific Gravity	1.05883				
Total Dissolved Solids	: 84203.46 mg/l				
Resistivity, ohm-meters	0.00000 at		°F Calc	0.08955	

### SCALING INDICES

Temp, °F	Calcium Carbonate CaCO3	Calcium Sulfate CaSO4	Barium Sulfate BaSO4
50	2.30	-45.30	1.25
75	2.48	-44.95	1.12
100	2.78	-44.39	0.99
125	3.16	-43.63	0.86
150	3.60	-42.65	0.74
175	4.07	-41.46	0.61
200	4.52	-40.05	0.48

A positive scaling index indicates scaling potential.

Remarks:

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## WATER ANALYSIS REPORT

Sample No.: 6213

Submitted : 04/19/17

Company : Berenergy  
 Location :  
 Field :  
 Lease/Unit: Maddie Gates B-6

Supplier : Chemical Services  
 Sampler : Andy Kirkpatrick  
 Sample Pt : Bleeder  
 Sampled :

BWPD :

BOPD :

MMCF/day:

Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium	18492.2	804.1	Chloride	34000.0	958.4
Calcium	1960.0	97.8	Bicarbonate	776.0	12.7
Magnesium	851.0	70.0	Sulfate	50.0	1.0
Iron	1.8	0.1	Carbonate		
Barium	19.0	0.3	Hydroxide		
Strontium			Sulfide	235.0	
Manganese			Carbon dioxide	537.0	
			Oxygen		

pH 8.00

Specific Gravity 1.04012

Total Dissolved Solids : 56149.99 mg/l

Resistivity, ohm-meters 0.00000 at

°F Calc 0.12858

### SCALING INDICES

Temp, °F	Calcium Carbonate CaCO3	Calcium Sulfate CaSO4	Barium Sulfate BaSO4
50	1.22	-48.68	1.07
75	1.40	-47.93	0.95
100	1.69	-46.99	0.82
125	2.06	-45.86	0.70
150	2.49	-44.54	0.58
175	2.94	-43.02	0.45
200	3.38	-41.29	0.33

A positive scaling index indicates scaling potential.

Remarks:

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## WATER ANALYSIS REPORT

Sample No.: 6214

Submitted : 04/19/17

Company : Berenergy  
Location :  
Field :  
Lease/Unit: Maddie Gates #5

Supplier : Chemical Services  
Sampler : Andy Kirkpatrick  
Sample Pt : Bleeder  
Sampled :

BWPD :		BOPD :		MMCF/day:	
Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium	28774.5	1251.2	Chloride	51000.0	1437.6
Calcium	3040.0	151.7	Bicarbonate	663.0	10.9
Magnesium	583.0	47.9	Sulfate	125.0	2.6
Iron	2.0	0.1	Carbonate		
Barium	16.0	0.2	Hydroxide		
Strontium			Sulfide	140.0	
Manganese			Carbon dioxide	484.0	
			Oxygen		
pH	9.00				
Specific Gravity	1.05883				
Total Dissolved Solids	: 84203.46 mg/l				
Resistivity, ohm-meters	0.00000 at		°F Calc	0.08955	

### SCALING INDICES

Temp, °F	Calcium Carbonate CaCO3	Calcium Sulfate CaSO4	Barium Sulfate BaSO4
50	2.30	-45.30	1.25
75	2.48	-44.95	1.12
100	2.78	-44.39	0.99
125	3.16	-43.63	0.86
150	3.60	-42.65	0.74
175	4.07	-41.46	0.61
200	4.52	-40.05	0.48

A positive scaling index indicates scaling potential.

Remarks: